## **EAST Search History**

## **EAST Search History (Prior Art)**

Ref#	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	7	((GANTETSU) near2 (MATSUI)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/26 19:54
S2	11	((GANTETSU) near2 (MATSUI)).INV.	EPO; JPO; DERWENT	OR	ON	2009/06/26 19:54
S3	27	((TOSHIYA) near2 (NAKA)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/26 19:54
S4	81	((TOSHIYA) near2 (NAKA)).INV.	EPO; JPO; DERWENT	OR	ON	2009/06/26 19:54
S5	26	((YOSHIHIRO) near2 (KOJIMA)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/26 19:54
S6	162	((YOSHIHIRO) near2 (KOJIMA)).INV.	EPO; JPO; DERWENT	OR	ON	2009/06/26 19:54
S7	19	((NORIFUMI) near2 (SATA)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/26 19:55
S8	4	((NORIFUMI) near2 (SATA)).INV.	EPO; JPO; DERWENT	OR	ON	2009/06/26 19:55
S9	113	((TAMOTSU) near2 (YAMAMOTO)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/26 19:55
S10	481	((TAMOTSU) near2 (YAMAMOTO)).INV.	EPO; JPO; DERWENT	OR	ON	2009/06/26 19:55
S12	15	((SHUHEI) near2 (TAGUCHI)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/26 19:56
S13	19	((SHUHEI) near2 (TAGUCHI)).INV.	EPO; JPO; DERWENT	OR	ON	2009/06/26 19:56
S14	5	((MASAYUKI) near2 (MUKAI)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/26 19:56
S15	77	((MASAYUKI) near2 (MUKAI)).INV.	EPO; JPO; DERWENT	OR	ON	2009/06/26 19:57
S16	1	((TETSUO) near2 (OOYAMA)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/26 19:57
S17	8	((TETSUO) near2 (OOYAMA)).INV.	EPO; JPO; DERWENT	OR	ON	2009/06/26 19:57
S18	25	((HIROSHI) near2 (YASUNO)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/26 19:57
S19	142	((HIROSHI) near2 (YASUNO)).INV.	EPO; JPO; DERWENT	OR	ON	2009/06/26 19:58

S20	9	("20030095156"   "20030103088"   "20040067778"   "5552806"   "5898435"   "5956025"   "6266098"   "6788241").PN. OR ("7271734").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/27 16:49
S21	13	("20030085793"   "20080062670"   "3886012"   "4375585"   "4619258"   "4931794"   "5598082"   "6323449"   "6359242"   "6794982"   "6995324"   "7070349").PN. OR ("7465896").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/27 17:00
S22	8	("20050093824"   "5563631"   "5615384"   "6556222"   "6774890"   "7039866").PN. OR ("7274354").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/27 17:01
S23	10	("4088855"   "5689285"   "6069552"   "6087925"   "6437682").PN. OR ("6794982").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/27 17:04
S24	1	"6062749".pn.	US-PGPUB; USPAT	OR	ON	2009/06/27 17:33
S25	5	("5912612"   "6259436"   "6437682"   "6653579"   "6794982").PN. OR ("7161583").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/27 17:39
S26	30	("4385291"   "6414907"   "6443614").PN. OR ("6556222").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/27 17:41
\$27	13	("5536911"   "5689285"   "6348664"   "6359243"   "6437682"   "6567074"   "6580039"   "6750408"   "6791037"   "6794982"   "6831238"   "6841743").PN. OR ("7078633").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/27 17:42

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		"20030076303"				
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		"5933102"				
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		("7466307").URPN.				
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S29	18	("20020003469"   "20020101441"   "20020101458"   "5542088"   "5627567"   "5764794"   "5798760"   "5933141"   "6031525"   "6072475"   "6104400"   "6181344"   "6320496"   "6441753"   "6473069"   "6538635"   "6538663"   "6556222").PN. OR ("7461355").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/27 17:46
\$30	8	("3723675"   "5327161"   "5625606"   "5871406"   "6181339"   "6392963"   "6556222"   "7181701").PN. OR ("7404146").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/27 17:48
S31	20	("20000003469"   "20020101458"   "5627567"   "5764794"   "5798760"   "5933141"   "6031525"   "6072475"   "6104400"   "6181344"   "6320496"   "6441753"   "6473069"   "6538635"   "6538663"   "6556222").PN. OR ("7215321").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/27 17:49
\$32	9	("5444671"   "5754645"   "5841849"   "5982710"   "6224254"   "6535461"   "6556222"   "6766182").PN. OR ("6968508").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/27 17:51
\$33	17	("20020003469"   "20020101458"   "5627567"   "5764794"   "5798760"   "5933141"   "6031525"   "6072475"   "6104400"   "6181344"   "6320496"   "6441753"   "6473069"   "6538635"   "6538663"   "6556222").PN. OR ("6967642").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/27

S34	17	("20020003469"	US-PGPUB;	OR	ON	2009/06/27
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		"6320496"   "6441753"   "6448987"   "6473069"   "6538635"   "6538663"   "6556222").PN. OR ("6925611").URPN.				
S35	53	("5295243"   "5485197"   "5515486"   "5664132"   "5706448"   "5745109"   "5790820"   "5805154"   "5828360"   "5894589"   "5898435"   "5940076"   "5973666"   "5977975"   "6005578"   "6144378").PN. OR ("6448987").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/27 17:54
S36	4	("6232959"   "6330009").PN. OR ("6771280").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/27 18:00
<b>S</b> 37	32	("4616224"   "4712101"   "4799049"   "4823634"   "4896554"   "4928093"   "4982618"   "5086510"   "5138329"   "5168982"   "5319803"   "5481265"   "5585785"   "5666138"   "5850213"   "6025832").PN. OR ("6300939").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/27 18:02
S38	3	"6794982".pn. "5903229".pn. "20010048422".pn.	US-PGPUB; USPAT	OR	ON	2009/07/10 13:44
S39	4664	345/156.cds.	US-PGPUB; USPAT	OR	ON	2009/07/10 14:16
S40	530	345/184.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/10 14:16
S41	1558383	(rotate or rotating or rotational)	US-PGPUB; USPAT	OR	ON	2009/07/10 14:16
S42	1909	S39 and S41	US-PGPUB; USPAT	OR	ON	2009/07/10 14:16

S43	10	("20040189595"   "4636963"   "5952628"   "6184480"   "6707387"   "7038667").PN. OR ("7310084").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/10 15:37
S44	5	("5883346"   "6411934"   "6636197"   "7019731").PN. OR ("7248252").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/10 15:38
S45	54	("20010034218"   "20020072674"   "20030043206"   "20040076444"   "3157853"   "3220121"   "3497668"   "3517446"   "3902687"   "3903614"   "4160508"   "4236325"   "4513235"   "4581491"   "4599070"   "4708656"   "4713007"   "4891764"   "4930770"   "4934694"   "5019761"   "5035242"   "5038089"   "5078152"   "5186695"   "5212473"   "5240417"   "5271290"   "5275174"   "5299810"   "5309140"   "5334027"   "5466213"   "5547382"   "5766016"   "5785630"   "5986638"   "6028600"   "6034688"   "6111577"   "6219034"   "6348772"   "6404420"   "6422941"   "6483500"   "6614456").PN. OR ("7116317").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/10 15:42
S46	3	("20020071206"   "6903903").PN. OR ("7061720").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/10 15:44

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S49	6	("5589893"   "5900867"   "6285357"   "6480188"   "6543052"   "6597374").PN. OR ("6847357").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/10 15:51
S50	10	("20020080115"   "5187630"   "5252821"   "5790101"   "6128006"   "6158136").PN. OR ("6756967").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/10 15:54
S51	19	("5856827"   "5963195"   "6037937"   "6049336"   "6178338"   "6188406"   "6192258"   "6298342"   "6226534"   "6297795"   "6392964"   "6483500"   "6512449").PN. OR ("6710771").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/10 16:00
S52	15	("5515345"   "5796927"   "5828813"   "5945646"   "5952730"   "6154201"   "6184868"   "6246129").PN. OR ("6593667").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/10 16:02
S53	174	("3919691"   "4050265"   "4131033"   "4477043"   "4560983"   "4706294"   "4712101"   "4782327"   "4795296"   "4800721"   "4823634"   "4868549"   "4935728"   "4943866"   "4964004"   "4979050"   "4983901"   "5007300"   "5044956"	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/10 16:12

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	5561"			
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	846"   "5296871'			
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15	080"   "5389865"			
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"6570557"   "6587093"   "6610936"     "6624640"   "6639586"   "6642857"     "6669924"   "6667740"   "6673308"     "6677932"   "6680731"   "6683462"     "6705511"   "6714817"   "6730863"     "6750852"   "6788221"   "6798218"     "68809275"   "68856433"   "6873203"     "68893724"   "6969978"     "6975123"   "7046230"   "7119550").PN. OR ("7253643").URPN.    55			. ) .	•				
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"6639586"   "6642857"			- 2					
"6649924"       "6667740"   "6673308"         "6667740"   "6683462"         "6705511"       "6714817"   "6730863"         "6750852"       "6788221"   "6798218"         "6899275"       "6886433"   "6873203"         "6888538"       "6893724"   "6969978"         "6975123"       "7046230"       "7119550").PN. OR ("7253643").URPN.    "3760392"   "4007454"         "4058765"       "4087625"   "4103252"         "4129747"       "4177421").PN. OR								
"6667740"   "6673308"			. 5					
"6680731"   "6683462"     "6705511"     "6714817"   "6730863"     "6750852"     "6788221"   "6798218"     "6809275"     "6856433"   "6873203"     "6888538"     "6893724"   "6969978"     "6975123"     "7046230"     "7119550").PN. OR ("7253643").URPN.  55   55   ("3198937"   US-PGPUB; OR ON 2009/07/30     "3760392"   "4007454"   USPAT; USOCR     "4058765"     "4087625"   "41103252"     "4129747"     "4177421").PN. OR								
"6705511"       "6714817"   "6730863"       "6750852"       "6788221"   "6798218"       "6809275"       "6888538"       "6893724"   "6969978"       "6975123"       "7046230"       "7119550").PN. OR     ("7253643").URPN.  35   55   ("3198937"   US-PGPUB; OR ON 2009/07/30       "3760392"   "4007454"   USPAT; USOCR         "4058765"       "4087625"   "4103252"         "4129747"       "4177421").PN. OR								
"6714817"   "6730863"   "6750852"   "6788221"   "6798218"   "6809275"   "68856433"   "6873203"   "6888538"   "6893724"   "6969978"   "7046230"   "7046230"   "7119550").PN. OR ("7253643").URPN.  55   55   ("3198937"   US-PGPUB; OR ON 2009/07/30   "3760392"   "4007454"   USPAT; USOCR   "4087625"   "4103252"   "4129747"   "4177421").PN. OR								
"6750852"   "6788221"   "6798218"   "6809275"   "6856433"   "6873203"   "6888538"   "6893724"   "6969978"   "7046230"   "7119550").PN. OR ("7253643").URPN.    "3760392"   "4007454"   "4058765"   "4087625"   "4103252"   "4129747"   "4177421").PN. OR				•				
"6788221"   "6798218"   "6809275"   "6856433"   "6873203"   "6888538"   "6893724"   "6969978"   "7046230"   "7119550").PN. OR ("7253643").URPN.  S5   55   ("3198937"   US-PGPUB; US-PGPUB; "3760392"   "4007454"   USPAT; USOCR   19:16   "4058765"   "4129747"   "4177421").PN. OR			- 4					
"6809275"   "6856433"   "6873203"     "6888538"   "6893724"   "6969978"     "6975123"   "7046230"   "7119550").PN. OR ("7253643").URPN.    "3760392"   "4007454"     "4058765"   "4087625"   "4103252"     "4129747"   "4177421").PN. OR			5.	•				
"6856433"   "6873203"   "6888538"   "6893724"   "6969978"   "7046230"   "7046230"   "7119550").PN. OR ("7253643").URPN.  S5								
"6888538"				•				
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"7046230"   "7119550").PN. OR ("7253643").URPN.  55   55   ("3198937"   US-PGPUB; OR ON 2009/07/30 "3760392"   "4007454" USPAT; USOCR   19:16   "4058765"   "4103252"   "4129747"   "4177421").PN. OR			"6893724"	"6969978"				
"7119550").PN. OR ("7253643").URPN.  55				1				
("7253643").URPN.  55   55   ("3198937"   US-PGPUB; OR ON 2009/07/30 19:16   "4058765"   "4087625"   "4103252"   "4129747"   "4177421").PN. OR			- 1					
55   55   ("3198937"   US-PGPUB; OR ON 2009/07/30								
"3760392"   "4007454" USPAT; USOCR   "4058765"   "4087625"   "4103252"   "4129747"   "4177421").PN. OR								
"4058765"   "4087625"   "4103252"   "4129747"   "4177421").PN. OR	ib	55			5	OR	ON	· §
"4087625"   "4103252"   "4129747"   "4177421").PN. OR					USPAT; USUUR			19:16
"4129747 <sup>"</sup>   "4177421").PN. OR								
"4177421").PN. OR								
3/ 1201000 /.01414			- 5					

S66	17	("20040224638"   "20040252109"   "20050052425"   "20050110768"   "4264903"   "4482883"   "4494105"   "4719524"   "4736191"   "4777328"   "5151677"   "5159159"   "5353004"   "5889236"   "5923388"   "5952912"   "7046230").PN. OR ("7310089").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/30 19:18
S67	5281	345/173.cds.	US-PGPUB; USPAT	OR	ON	2009/08/07 16:26
S68	1566844	(rotate or rotating or rotational) or (directional or circular) and S67	US-PGPUB; USPAT	OR	ON	2009/08/07 16:27
S69	1810	((rotate or rotating or rotational) or (directional or circular)) and S67	US-PGPUB; USPAT	OR	ON	2009/08/07 16:27
S70	420	(((rotate or rotating or rotational) or (directional or circular)) with input) and S67	US-PGPUB; USPAT	OR	ON	2009/08/07 16:28
S71	687	(((rotate or rotating or rotational) or (directional or circular)) same input) and S67	US-PGPUB; USPAT	OR	ON	2009/08/07 16:28
S72	267	S71 not S70	US-PGPUB; USPAT	OR	ON	2009/08/07 16:28
S73	11	("20020109580"   "20020109677"   "20050151623"   "4139837"   "4644352"   "4786900"   "6193152"   "6282152"   "6359838"   "6720860").PN. OR ("7286063").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/07 16:40
S74	1	"10903964".apnr.	US-PGPUB; USPAT	OR	ON	2009/08/07 17:00
S75	1	"10611814".apnr.	US-PGPUB; USPAT	OR	ON	2009/08/07 17:04

S76	17	("4303856"   "4644326"   "4787040"   "4853888"   "5412189"   "5483261"   "5572239"   "5859631"   "5936613"   "5977867"   "6054990"   "6061177"   "6154201"   "6326956"   "6414672"   "6441807").PN. OR ("7489303").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/07 17:05
S77	4	("6433771"   "6636197"   "6918313"   "7046230").PN. OR ("7420547").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/24 18:29
S78	4074	(input near3 unit) same (counting or increment)	US-PGPUB; USPAT	OR	ON	2009/09/18 08:06
S79	468	S78 and rotational	US-PGPUB; USPAT	OR	ON	2009/09/18 08:06
S80	234	S78 and "345".clas.	US-PGPUB; USPAT	OR	ON	2009/09/18 08:07
S81	1	"6794982".pn.	US-PGPUB; USPAT	OR	ON	2009/09/18 08:45
S82	1	"5555004".pn.	US-PGPUB; USPAT	OR	ON	2009/09/18 08:47
S83	1	"20030085793".pn.	US-PGPUB; USPAT	OR	ON	2009/09/18 08:52
S84	102	715/834.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/18 09:33
S85	31	("20020015024"   "20020030665"   "20020072394"   "20030076301"   "20030104839"   "20030162569"   "2004009788"   "20040055446"   "20040165924"   "20040185912"   "20040218963"   "20050253818"   "20050253818"   "20050283724"   "20070046641"   "20070106732"   "5748512"   "5801941"   "5963671"   "6011542"   "6323846"   "6359572"   "6407325"   "6570557"	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/18

		"6597345"   "6654733"   "6677932"   "7107147"   "7149550"   "7286115").PN. OR ("7574672").URPN.				
S86	10	("20030112279"   "20030197740"   "20040100479"   "20040221243"   "6236398"   "6252596"   "6448987"   "7036091"   "7091998"   "7093201").PN. OR ("7418671").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/18 09:39
S87	21	("20010045965"   "20020186251"   "20030043198"   "4755809"   "5615325"   "5825353"   "5854629"   "5940076"   "5958008"   "5986638"   "6005573"   "6028600"   "6064383"   "6104400"   "6188406"   "6219053"   "6993727").PN. OR ("7093201").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/18 09:42
S88	13	("20050050476"   "5485197"   "5798760"   "5940076"   "6005601"   "6144378"   "6448987"   "6819344"   "6920445").PN. OR ("7036091").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/18 09:43
S89	9	("20050050476"   "5485197"   "5798760"   "5940076"   "6005601"   "6144378"   "6448987"   "6819344"   "6920445").PN. OR ("7036090").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/18 09:44
S90	1	(annular near3 array) same folders	US-PGPUB; USPAT	OR	ON	2009/09/18 10:35
S91	1	"20020101441".pn.	US-PGPUB; USPAT	OR	ON	2009/09/18 11:26
S92	4	2007/0120838.pn. "20060164403".pn. "7061720".pn. "20040058730".pn. "7310084".pn.	US-PGPUB; USPAT	OR	ON	2010/03/27 16:35

S93	0	2007/0120838.pn.	US-PGPUB; USPAT	OR	ON	2010/03/27 16:36
S94	1	"20070120838".pn.	US-PGPUB; USPAT	OR	ON	2010/03/27 16:36
S95	17079	(rotational or circular or directional) same (input near3 (device or unit))	US-PGPUB; USPAT	OR	ON	2010/03/27 18:00
S96	3517	S95 and (angular)	US-PGPUB; USPAT	OR	ON	2010/03/27 18:00
S97	578	S95 same (angular)	US-PGPUB; USPAT	OR	ON	2010/03/27 18:00
S98	18	S95 same (angular near3 change)	US-PGPUB; USPAT	OR	ON	2010/03/27 18:01
S99	55	S95 same (angular same change)	US-PGPUB; USPAT	OR	ON	2010/03/27 18:02
S100	13991	345/156-157,173- 178,184.ccls.	US-PGPUB; USPAT	OR	ON	2010/03/27 18:05
S101	21758	345/156-184.cds.	US-PGPUB; USPAT	OR	ON	2010/03/27 18:05
S102	6381	S101 and ((angular or input) same change)	US-PGPUB; USPAT	OR	ON	2010/03/27 18:06
S103	517	S101 and ((angular) same change)	US-PGPUB; USPAT	OR	ON	2010/03/27 18:06
S104	137	("4725694"   "5050105"   "5148155"   "5258748"   "5276794"   "5347295"   "5603053").PN. OR ("6094197").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/27 18:24
S105	11	("4933670"   "5202901"   "5218672"   "5453758"   "5477237"   "5530455"   "5627531").PN. OR ("5973669").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/27 18:26

## **EAST Search History (Interference)**

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